Special Issue

Latest Advances in Thermochemical Energy Storage Systems

Message from the Guest Editors

Designing efficient, cost-effective, and scalable energy storage systems stands as one of the main technological challenges for the widespread deployment of renewable energy. Thermochemical energy storage (TCES) is an attractive alternative to sensible heat storage. Integrated TCES systems in renewable energy facilities, such as solar and wind power, are based on driving endothermic reactions that yield at least two separate products. This Special Issue covers novel research concerning TCES. Topics of interest for publication include, but are not limited to, the following:

- TCES modelling;
- Energy integration;
- Materials properties;
- Synthetic materials testing;
- Reactors design for TCES;
- Power cycles integration;
- TCES for industrial heat;
- Economic analysis;
- Scaling-up assessment;
- Critical reviews of TCES technology.

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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